

ABSTRACT

The ability to transport body liquids in consumer products such as diapers, incontinents and feminine napkins is a key factor in their performance. This invention is designed to provide specific high fluxes (volume of liquid/(time\*mass of polymer) of aqueous liquids in designated directions using bundles of new specially designed fibers. The key factors for the bundles are a high specific adhesion for the liquid of interest, a high specific volume of the bundle itself, and alignment of the fibers within the bundle. The invention includes novel liquid acquisition/distribution systems and absorbent products that include a liquid acquisition/distribution system which may incorporate the novel bundles of fibers.

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